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*Admitted only in Maryland
*Admitted only in Virginia
*Practice limited to
Federal Agencies

IFW
1648

July 15, 2004

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Art Unit 1648

Re: U.S. Utility Patent Application
Appl. No. 09/848,616; Filed: May 4, 2001
For: **Molecular Antigen Array**
Inventors: SEBBEL *et al.*
Our Ref: 1700.0180002/BJD/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

1. First Supplemental Information Disclosure Statement;
2. Form PTO-1449 (62 sheets citing 195 documents);
3. 189 documents cited in Form PTO-1449 (attached); and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

BJD/SJE/lam
Enclosures

287535.1



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sebbel *et al.*

Appl. No.: 09/848,616

Filed: May 4, 2001

For: **Molecular Antigen Array**

Confirmation No.: 6018

Art Unit: 1648

Examiner: Mosher, M.

Atty. Docket: 1700.0180002/BJD/SJE

**First Supplemental Information Disclosure Statement
Under 37 C.F.R. § 1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed on May 7, 2002 in connection with the above-captioned application.

Copies of documents AF2 to AK2 are not provided in accordance with the U.S. Patent and Trademark Office pre-OG notice of July 11, 2003, which states "[t]he Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003." Copies of the remaining documents are provided.

The Examiner's attention is directed to the following copending applications directed to related technical subject matter:

U.S. Application No. 10/622,064, Bachmann *et al.*, filed July 18, 2003, published as Published Application No. 2004/0059094 A1 (Document AD1);

U.S. Application No. 10/617,876, Bachmann *et al.*, filed July 14, 2003, published as Published Application No. 2004/0076611 A1 (Document AE1);

U.S. Application No. 10/622,087, Bachmann *et al.*, filed July 18, 2003, pending (Document AT92);

U.S. Application No. 10/622,124, Bachmann *et al.*, filed July 18, 2003, published as Published Application No. 2004/0076645 A1 (Document AF1); and

U.S. Application No. 10/733,582, Renner *et al.*, filed December 12, 2003 pending (Not Published), which is a continuation of U.S. Application No. 09/449,631, Renner *et al.*, filed November 30, 1999, abandoned (Document AR93).

In accordance with the recent Federal Circuit decision in *Dayco Prods., Inc. v. Total Containment, Inc.* 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from related copending applications as Documents AS95-AS96.

The identification of these U.S. Patent Applications and Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications, Office Actions, and the art cited therein during examination of the present application.

Document AR94 is an unverified English language abstract of non English-language Published International Patent Application No. 94/06472, which was submitted as Document AL2 in Applicants' Information Disclosure Statement filed on May 7, 2002.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

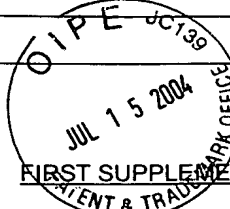
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Brian J. Del Buono", with a long horizontal flourish extending to the right.

Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

Date: July 15, 2004

1100 New York Avenue, N.W.
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(202) 371-2600

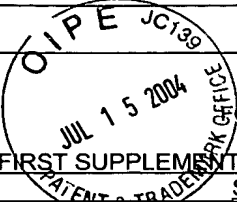
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| Page 1 of 62 | | | | | | | |
| <div style="text-align: center;">  </div> <div style="text-align: center;"> FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT </div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table> | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| | AF2 | 5,143,726 | 09/01/1992 | Thornton <i>et al.</i> | | | 11/20/1989 |
| | AG2 | 5,580,859 | 12/03/1996 | Felgner <i>et al.</i> | | | 03/18/1994 |
| | AH2 | 5,935,821 | 08/10/1999 | Chatterjee <i>et al.</i> | | | 11/21/1996 |
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| | AK2 | 2004-0076645 | 04/22/2004 | Bachmann <i>et al.</i> | | | 07/18/2003 |

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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN4 | WO 99/28478 | 06/10/1999 | WIPO | | | Yes No |
| | AO4 | WO 99/57289 | 11/11/1999 | WIPO | | | Yes No |
| | AP4 | WO 00/50461 | 08/31/2000 | WIPO | | | Yes No |

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| | AS | 35 | Abraham, J.M., <i>et al.</i> , "An invertible element of DNA controls phase variation of type 1 fimbriae of Escherichia coli," <i>Proc Natl Acad Sci U S A.</i> 1985 Sep;82(17):5724-5727, National Academy Press (1985) |
| | AT | 35 | Abraham, S.N., <i>et al.</i> , "Glycerol-induced unraveling of the tight helical conformation of Escherichia coli type 1 fimbriae," <i>J Bacteriol.</i> 1992 Aug;174(15):5145-5148, American Society for Microbiology (1992) |

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| | AL5 | EP 0 385 610 A1 | 05/09/1990 | Europe | | | Yes No |
| | AM5 | EP 0 385 610 B1 | 03/16/1994 | Europe | | | Yes No |
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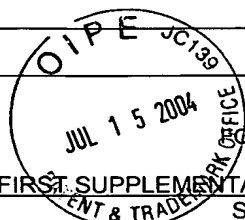
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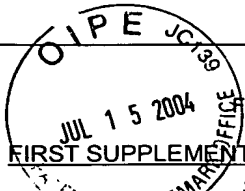
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| | AR | <u>37</u> | Blomfield, I.C., <i>et al.</i> , "Type 1 fimbriation and fimE mutants of Escherichia coli K-12., " <i>J Bacteriol.</i> 1991 Sep;173(17):5298-5307, American Society for Microbiology (1991) |
| | AS | <u>37</u> | Blomfield, I.C., <i>et al.</i> , "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in Escherichia coli, " <i>Mol Microbiol.</i> 1997 Feb;23(4):705-717, Blackwell Science, Ltd. (1997) |
| | AT | <u>37</u> | Boder, E.T., and Wittrup, K.D., "Yeast surface display for directed evolution of protein expression, affinity, and stability, " <i>Methods Enzymol.</i> 2000;328:430-444, Academic Press (October 2000) |

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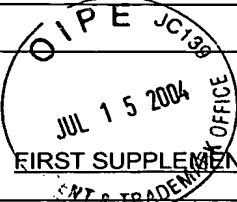
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| | AR | 38 | Bonci, A., et al., "Relatedness and phylogeny within the family of periplasmic chaperones involved in the assembly of pili or capsule-like structures of gram-negative bacteria," <i>J Mol Evol.</i> 1997 Mar;44(3):299-309, Springer Verlag New York Inc. 1997 |
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| | AT | 38 | Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J Immunol.</i> 1989 Jan 15;142(2):679-687, The American Association of Immunologists (1989) |

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| Page 5 of 62 | | | | | | | |
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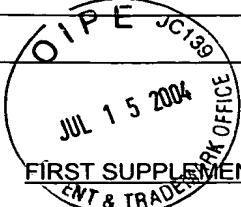
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| | AR | <u>39</u> | Brown, P.M., <i>et al.</i> , "A single-step purification of biologically active recombinant human interleukin-5 from a baculovirus expression system," <i>Protein Expr Purif.</i> 1995 Feb;6(1):63-71, Academic Press, Inc. (1995) |
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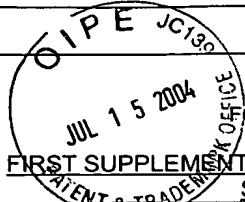
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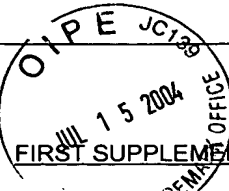
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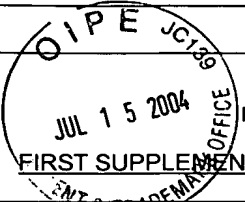
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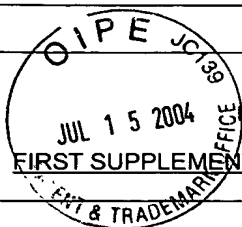
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FORM PTO-1449

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1700.0180002/BJD/SJEAPPLICATION NO.
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U.S. PATENT DOCUMENTS

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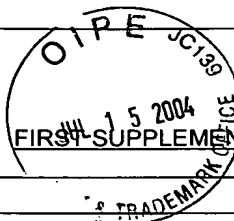
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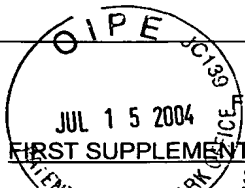
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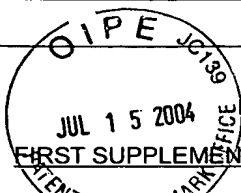
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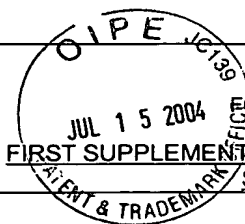
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FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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09/848,616FIRST NAMED INVENTOR
Sebbel *et al.*FILING DATE
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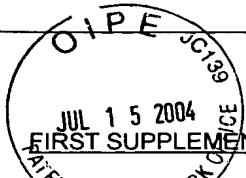
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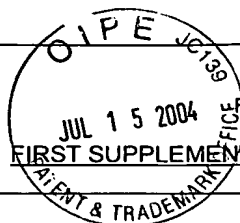
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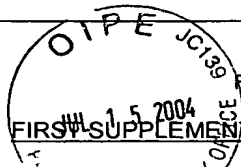
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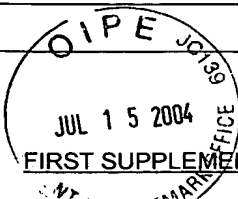
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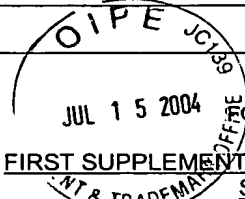
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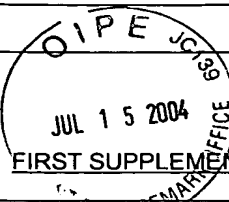
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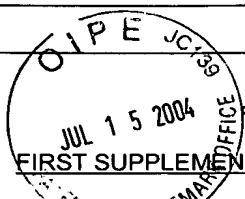
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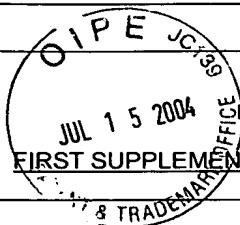
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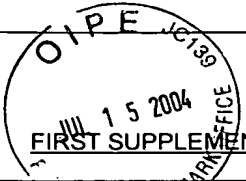
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|  | FORM PTO-1449 | | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 |
| | FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | |
| | | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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| | AL | | | | | | Yes No |
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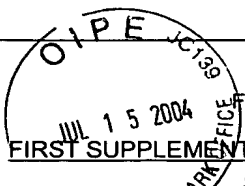
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>58</u> | Smyth, C.J., <i>et al.</i> , "Fimbrial adhesins: similarities and variations in structure and biogenesis," <i>FEMS Immunol Med Microbiol.</i> 1996 Dec 1;16(2):127-139, Elsevier (1996) |
| | AS | <u>58</u> | Striker, R.T., <i>et al.</i> , "Stable fiber-forming and nonfiber-forming chaperone-subunit complexes in pilus biogenesis," <i>J Biol Chem.</i> 1994 Apr 22;269(16):12233-12239, The American Society for Biochemistry and Molecular Biology Inc. (1994) |
| | AT | <u>58</u> | Thanassi, D.G., <i>et al.</i> , "The PapC usher forms an oligomeric channel: implications for pilus biogenesis across the outer membrane," <i>Proc Natl Acad Sci U S A.</i> 1998 Mar 17;95(6):3146-3151, National Academy Press (1998) |

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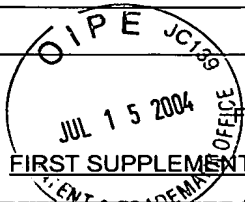
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>59</u> | Walse, B., <i>et al.</i> , "Transferred nuclear Overhauser effect spectroscopy study of a peptide from the PapG pilus subunit bound by the Escherichia coli PapD chaperone," <i>FEBS Lett.</i> 1997 Jul 21;412(1):115-120, Elsevier Science B.V. (1997) |
| | AS | <u>59</u> | Wynne, S.A., <i>et al.</i> , "The crystal structure of the human hepatitis B virus capsid," <i>Mol Cell.</i> 1999 Jun;3(6):771-780, Cell Press (June 1999) |
| | AT | <u>59</u> | Zuercher, A.W., <i>et al.</i> , "Oral anti-IgE immunization with epitope-displaying phage," <i>Eur J Immunol.</i> 2000 Jan;30(1):128-135, Wiley-Vch Verlag GmbH (January 2000) |

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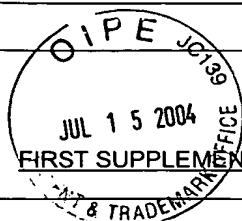
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>60</u> | NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., <i>et al.</i> (January 1990) |
| | AS | <u>60</u> | NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., <i>et al.</i> (November 1991) |
| | AT | <u>60</u> | NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., <i>et al.</i> (July 1992) |

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FORM PTO-1449

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09/848,616FIRST NAMED INVENTOR
Sebbel *et al.*FILING DATE
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1648FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

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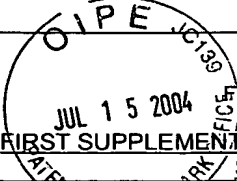
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| | AR | <u>61</u> | NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993) |
| | AS | <u>61</u> | NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993) |
| | AT | <u>61</u> | NCBI Entrez, GenBank Report, Accession No. AAA37490, from Rouvier E. (July 1993) |

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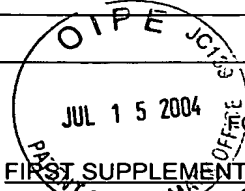
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| | AR | <u>62</u> | NCBI Entrez, GenBank Report, Accession No. M90520, from Kew, M.C., et al. (August 1993) |
| | AS | <u>62</u> | NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993) |
| | AT | <u>62</u> | NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993) |

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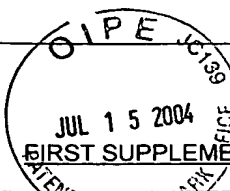
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| | AR | <u>63</u> | NCBI Entrez, GenBank Report, Accession No. AAA16663, from Kozlovska, T.M., et al. (March 1994) |
| | AS | <u>63</u> | NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., et al. (May 1994) |
| | AT | <u>63</u> | NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., et al. (April 1995) |

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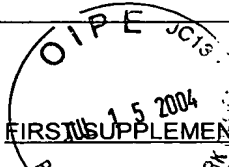
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| | AR | <u>64</u> | NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., et al., (April 1995) |
| | AS | <u>64</u> | NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995) |
| | AT | <u>64</u> | NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995) |

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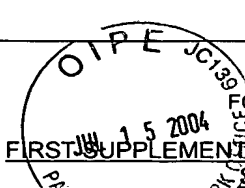
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| | AS | <u>65</u> | NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995) |
| | AT | <u>65</u> | NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995) |

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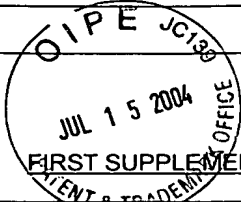
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| | AR | <u>66</u> | NCBI Entrez, GenBank Report, Accession No. X85286, from Lai, M.E., et al. (April 1995) |
| | AS | <u>66</u> | NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., et al. (April 1995) |
| | AT | <u>66</u> | NCBI Entrez, GenBank Report, Accession No. X85291, from Lai, M.E., et al. (April 1995) |

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|  <p>FORM PTO-1449</p> <p>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table> | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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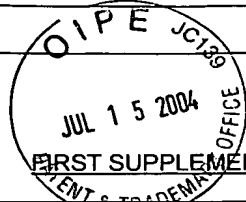
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| | AR | <u>67</u> | NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995) |
| | AS | <u>67</u> | NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., et al. (April 1995) |
| | AT | <u>67</u> | NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., et al. (April 1995) |

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|  | FORM PTO-1449 | | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 |
| | FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | |
| | | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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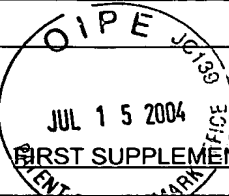
FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|-----------|--|
| | AR | <u>68</u> | NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., et al. (April 1995) |
| | AS | <u>68</u> | NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., et al. (April 1995) |
| | AT | <u>68</u> | NCBI Entrez, GenBank Report, Accession No. X85299, from Lai, M.E., et al. (April 1995) |

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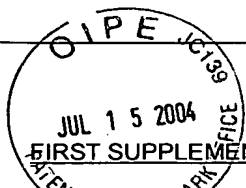
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| | AR | <u>69</u> | NCBI Entrez, GenBank Report, Accession No. X85301, from Lai, M.E., et al. (April 1995) |
| | AS | <u>69</u> | NCBI Entrez, GenBank Report, Accession No. X85302, from Lai, M.E., et al. (April 1995) |
| | AT | <u>69</u> | NCBI Entrez, GenBank Report, Accession No. X85303, from Lai, M.E., et al. (April 1995) |

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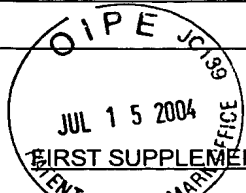
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>70</u> | NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., et al. (April 1995) |
| | AS | <u>70</u> | NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995) |
| | AT | <u>70</u> | NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995) |

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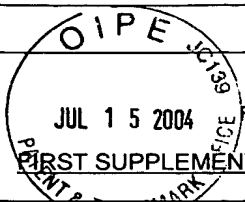
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| | AR | <u>71</u> | NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., <i>et al.</i> (April 1995) |
| | AS | <u>71</u> | NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., <i>et al.</i> (April 1995) |
| | AT | <u>71</u> | NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., <i>et al.</i> (April 1995) |

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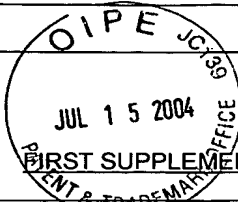
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| | AR | <u>72</u> | NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995) |
| | AS | <u>72</u> | NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995) |
| | AT | <u>72</u> | NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995) |

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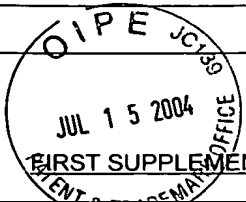
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| | AR | <u>73</u> | NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., <i>et al.</i> (January 1996) |
| | AS | <u>73</u> | NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., <i>et al.</i> (February 1996) |
| | AT | <u>73</u> | NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., <i>et al.</i> (April 1996) |

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| | AO | | | | | | Yes No |
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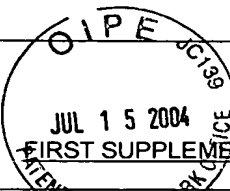
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| | AR | <u>74</u> | NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996) |
| | AS | <u>74</u> | NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997) |
| | AT | <u>74</u> | NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997) |

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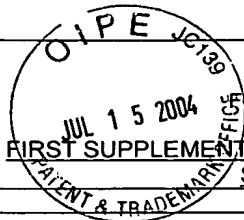
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| | AR | <u>75</u> | NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., et al. (October 1997) |
| | AS | <u>75</u> | NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997) |
| | AT | <u>75</u> | NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998) |

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 FIRST NAMED INVENTOR
 Sebbel *et al.*

 APPLICATION NO.
 09/848,616

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 ART UNIT
 1648

 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
 STATEMENT

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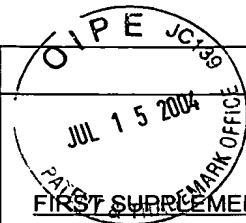
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| | AR | <u>76</u> | NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., <i>et al.</i> (April 1998) |
| | AS | <u>76</u> | NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., <i>et al.</i> (May 1998) |
| | AT | <u>76</u> | NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., <i>et al.</i> (September 1998) |

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| Page 43 of 62 | | | | | | | |
| <div style="text-align: center;">  </div> <div style="text-align: center;"> FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT </div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table> | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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| | AR | <u>77</u> | NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999) |
| | AS | <u>77</u> | NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999) |
| | AT | <u>77</u> | NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999) |

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09/848,616FIRST NAMED INVENTOR
Sebbel *et al.*FILING DATE
May 4, 2001ART UNIT
1648FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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FOREIGN PATENT DOCUMENTS

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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

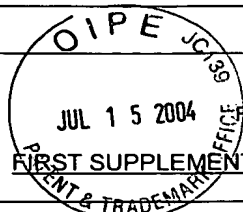
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>78</u> | NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999) |
| | AS | <u>78</u> | NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999) |
| | AT | <u>78</u> | NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999) |

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FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENTATTY. DOCKET NO.
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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

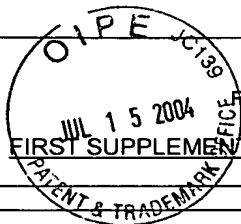
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>79</u> | NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999) |
| | AS | <u>79</u> | NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., <i>et al.</i> (October 1999) |
| | AT | <u>79</u> | NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., <i>et al.</i> (October 1999) |

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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
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| | AP | | | | | | Yes No |


OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>80</u> | NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., <i>et al.</i> (December 1999) |
| | AS | <u>80</u> | NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., <i>et al.</i> (April 2000) |
| | AT | <u>80</u> | NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., <i>et al.</i> (May 2000) |

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|  | FORM PTO-1449 | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 |
| | FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | |
| | | FILING DATE May 4, 2001 | ART UNIT 1648 |

U.S. PATENT DOCUMENTS

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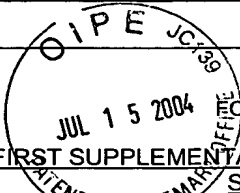
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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|-----------|--|
| | AR | <u>81</u> | NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., et al. (July 2000) |
| | AS | <u>81</u> | NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000) |
| | AT | <u>81</u> | NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., et al. (January 2001) |

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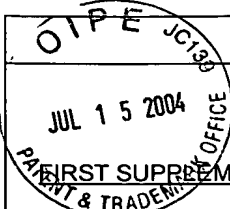
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| | AR | <u>82</u> | NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., <i>et al.</i> (January 2001) |
| | AS | <u>82</u> | NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., <i>et al.</i> (January 2001) |
| | AT | <u>82</u> | NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., <i>et al.</i> (January 2001) |

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| Page 49 of 62 | | | | | | | |
| <div style="text-align: center;">  </div> <div style="text-align: center;"> FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT </div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table> | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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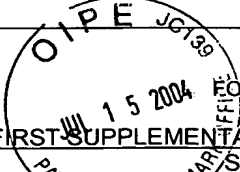
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| | AM | | | | | | Yes No |
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| | AR | <u>83</u> | NCBI Entrez, GenBank Report, Accession No. U14003, from Plunket, G., III, et al. (January 2001) |
| | AS | <u>83</u> | NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001) |
| | AT | <u>83</u> | NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001) |

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| | | 1700.0180002/BJD/SJE | | 09/848,616 |
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U.S. PATENT DOCUMENTS

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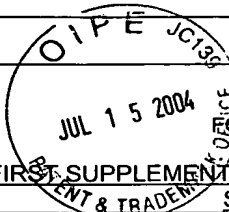
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| | AP | | | | | | Yes No |

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| | AR | <u>84</u> | NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001) |
| | AS | <u>84</u> | NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001) |
| | AT | <u>84</u> | NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001) |

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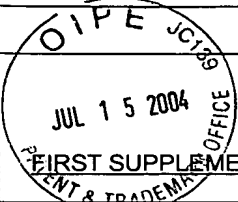
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| | AP | | | | | | Yes No |

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| | AR | <u>85</u> | NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001) |
| | AS | <u>85</u> | NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001) |
| | AT | <u>85</u> | NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001) |

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| Page 52 of 62 | | | | | | | |
|  <p>FORM PTO-1449</p> <p>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table> | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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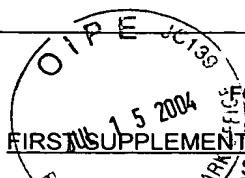
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| | AR | <u>86</u> | NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., et al. (February 2002) |
| | AS | <u>86</u> | NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., et al. (March 2002) |
| | AT | <u>86</u> | NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002) |

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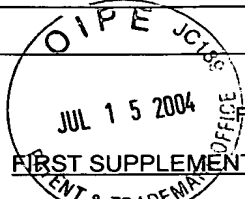
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| | AR | <u>87</u> | NCBI Entrez, GenBank Report, Accession No. O09006, from Hromas, R., et al. (June 2002) |
| | AS | <u>87</u> | NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002) |
| | AT | <u>87</u> | NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002) |

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|  | FORM PTO-1449 | | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 |
| | FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | |
| | | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>88</u> | NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002) |
| | AS | <u>88</u> | NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002) |
| | AT | <u>88</u> | NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003) |

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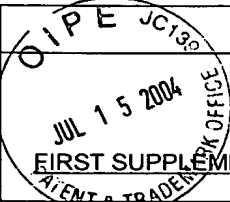
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| | AR | <u>89</u> | NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., et al. (September 2003) |
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| | AT | <u>89</u> | NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003) |

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| Page 56 of 62 | | | | | | | |
| <div style="float: left; text-align: center;">  </div> <div style="float: right; text-align: center;"> FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT </div> <div style="clear: both;"></div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table> | ATTY. DOCKET NO. 1700.0180002/BJD/SJE | APPLICATION NO. 09/848,616 | FIRST NAMED INVENTOR Sebbel <i>et al.</i> | | FILING DATE May 4, 2001 | ART UNIT 1648 |
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| | AR | 90 | NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003) |
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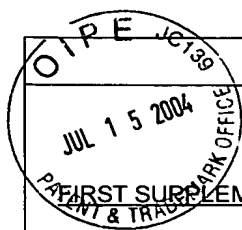
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| | AR | <u>91</u> | NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., et al. (September 2003) |
| | AS | <u>91</u> | NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., et al. (September 2003) |
| | AT | <u>91</u> | NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., et al. (September 2003) |

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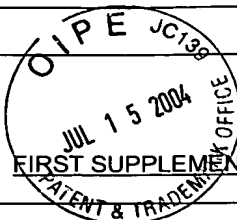
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>92</u> | Swiss-Prot/TrEMBL, TN11_Mouse, Primary Accession No. O35235, entered in Swiss-Prot in October 2001 |
| | AS | <u>92</u> | Swiss-Prot/TrEMBL, TN11_Human, Primary Accession No. O14788, entered in Swiss-Prot in October 2001 |
| | AT | <u>92</u> | Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED) |

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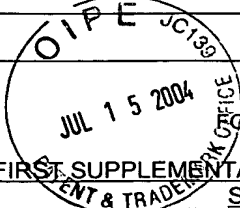
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| | AR | <u>93</u> | Copy of co-pending U.S. Application No. 10/733,582, inventors Renner <i>et al.</i> , filed December 12, 2003 (NOT PUBLISHED) |
| | AS | <u>93</u> | Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002) |
| | AT | <u>93</u> | NCBI Entrez, PubMed Abstract, PMID: 2205968, Diallo, A., et al., "Morbillivirus group: genome organization and proteins," Vet. Microbiol. 23:155-163 (1990) |

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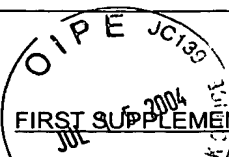
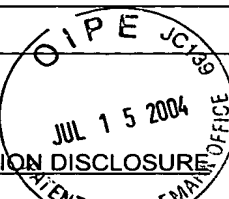
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|--|----|-----------|---|
| | AR | <u>94</u> | Dialog File 351, Accession No. 1994-111516, Derwent WPI English language abstract for FR 2695563 |
| | AS | <u>94</u> | International Search Report for International Application No. PCT/IB02/00168 mailed on November 4, 2002 |
| | AT | <u>94</u> | International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002 |

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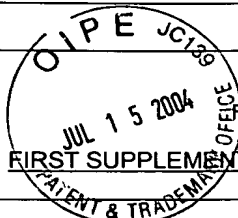
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| | AR | <u>95</u> | International Search Report for International Application No. PCT/IB02/00166, mailed January 31, 2003 |
| | AS | <u>95</u> | Copy of Office Action mailed June 6, 2001, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999. |
| | AT | <u>95</u> | Copy of Office Action mailed February 27, 2002, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999. |

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| | AR | 96 | Copy of Office Action mailed November 14, 2002, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999. |
| | AS | 96 | Copy of Office Action mailed March 1, 2004, for United States Patent Application No. 10/050,902, Renner <i>et al.</i> , filed January 18, 2002. |
| | AT | | |

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